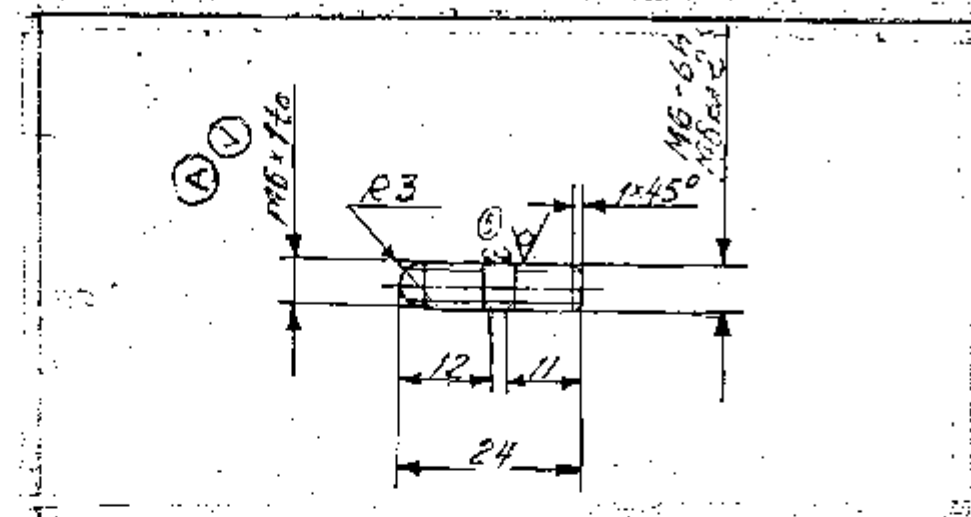


DRAWING NUMBER  
350 03



**D** EQUIVALENT MATERIAL STEEL  
45C8 TO IS:1570

1. DELETED.
2. TECHNICAL REQUIREMENTS FOR THREADS AS PER STANDARD 82021-00.
3. DIMENSIONS WITH UNSPECIFIED TOLERANCES AND THE REST OF THE TECHNICAL REQUIREMENTS AS PER STANDARD 82052-00.
4. COATING: CADMIUM 3, CHROMATIZING AS PER ULYN-104 WITH SUBSEQUENT ELIMINATION OF HYDROGEN EMBRITTLEMENT.
5. THE THREAD MAY BE MADE BY ROLLING WITH DIAMETER OF UN-THREADED PORTION WITH IN THE PITCH DIAMETER OF THREAD.
6. MECHANICAL DAMAGES OF THE CADMIUM COATING SUCH AS SCRATCHES, NICKS AND DENTS ARE ALLOWED ON ASSEMBLY UNITS, PROVIDED THE STEEL IS NOT EXPOSED.
7. ALTERNATE MATERIAL: STEEL GRADES 40 & 50 GOST 1050-74.
8. HARDNESS:- 27-32 HRC.

\* ALT MATERIAL:-  
STEEL 709 M40 (EN-19) TO  
BS:- 970 PT.-1- 1983

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST WT 0.004 Kg TO BE STAMPED OR MARKED WHERE INDICATED THUS # ( LETTERS)  
ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT-SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE

**EXPLANATORY NOTE:**

8. REFERENCE MATERIAL QUOTED:  
COLD DRAWN SIZED ROUND BAR, 6.0 (-0.025)mm DIA TO GOST 7417-75 FROM HIGH GRADE SIZED STEEL NORMAL SURFACE QUALITY TO GOST 1051-73 AND MANUFACTURED IN ACCORDANCE WITH QUALITY CARBON STRUCTURAL STEEL GRADE 45 TO GOST 1050-74.  
REFERENCE NOTE '7' ON ALTERNATE MATERIAL: QUALITY CARBON STRUCTURAL STEEL GRADE 40 AND 50 TO GOST 1050-74.  
a) CHEMICAL COMPOSITION: AS PER GOST 1050-74.

| GRADE OF STEEL | CONTENT OF ELEMENTS% |             |             |      |       |       | REMARKS  |
|----------------|----------------------|-------------|-------------|------|-------|-------|----------|
|                | C                    | Si          | Mn          | Cr   | S     | P     |          |
| 45             | 0.42 - 0.50          | 0.17 - 0.37 | 0.50 - 0.80 | 0.25 | 0.040 | 0.035 | Ref,Matl |
| 40             | 0.37 - 0.45          | 0.17 - 0.37 | 0.50 - 0.80 | 0.25 | 0.040 | 0.035 | Alt,Matl |
| 50             | 0.47 - 0.55          | 0.17 - 0.37 | 0.50 - 0.80 | 0.25 | 0.040 | 0.035 | Alt,Matl |

RESIDUAL CONTENT OF COPPER AND NICKEL SHOULD NOT EXCEED 0.25% EACH

b) MECHANICAL PROPERTIES: AS PER GOST 1050-74.

| GRADE OF STEEL | ULTIMATE TENSILE STRENGTH<br>Kgf/mm <sup>2</sup> | YIELD POINT<br>Kgf/mm <sup>2</sup> | ELONGATION<br>% | REDUCTION<br>IN AREA<br>% | IMPACT<br>STRENGTH<br>Kgf/cm <sup>2</sup> | HARDNESS<br>B H N<br>M A X | REMARKS  |
|----------------|--|------------------------------------|-----------------|---------------------------|---|----------------------------|----------|
| 45             | 61   | 36                                 | 16              | 40                        | 5   | 207                        | Ref,Matl |
| 40             | 58   | 34                                 | 19              | 45                        | 6   | 197                        | Alt,Matl |
| 50             | 64   | 38                                 | 14              | 40                        | 4   | 217                        | Alt,Matl |

**A** 9. REPAIR SIZE DIMENSIONS ARE ADDED WHERE INDICATED THUS **⊕** BASED ON OVERHAUL SPECIFICATIONS PART III REPAIR DRAWINGS.

| Sl.No. | R                   | REMARKS                               |
|--------|---------------------|---------------------------------------|
| 1      | M6 x 1.25 to        | ALL OTHER CONDITIONS AS PER STD. DRG. |
| 2      | PCD = 7.188 ± 0.152 |                                       |

\*\*  
Cb 306-08-8, Cb 306-09-10,  
Cb 401-03-6, Cb 3301-15-30,  
Cb 306-08-13, Cb 306-09-13,  
Cb 3308-04-26

|       |          |  |      |         |       |            |                         |               |                |                |
|-------|----------|--|------|---------|-------|------------|-------------------------|---------------|----------------|----------------|
| DRN   | CHD      | TCD  | APPO | DATE    | SCALE | DIMENSIONS | TOLERANCE               | ALL THREADS   | D S CAT NUMBER | DRAWING NUMBER |
|       |          |  |      | 30-5-86 | 1:1   | IN mm      | UNLESS OTHERWISE STATED | TO CONFORM TO |                | 350 03         |
| D     | 12-8-10  | 4 <sup>th</sup> Alt. Comm. Meeting Minutes |      |         |       |            |                         |               |                |                |
| C     | 25.8.08  | USED ON NUMBERS ADDED                      |      |         |       |            |                         |               |                |                |
| B     | 11.01.08 | AUTHY:- MIN. OF ALT. COM. MEET.            |      |         |       |            |                         |               |                |                |
| A     | 6-9-95   | REPAIR SIZE DIMENSION ADDED                |      |         |       |            |                         |               |                |                |
| ISSUE | DATE     | NATURE OF AMENDMENTS                       |      |         |       |            |                         |               |                |                |

MATERIAL ROUND BAR  
GOST 7417-75 \*  
45 GOST 1051-73  
USED ON Cb 3301-15-44  
Cb 3338-402-4  
Cb 3329-01-11  
**C**  
CONTROLLERATE OF INSPECTION(HEAVY VEHICLES)  
AVADI  
TITLE: STUD M6 x 24

COMMON TO V-92S2 ENGINE

A-11  
SIZE A3